

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091818\
 Data File : VW005508.D
 Acq On : 19 Sep 2018 05:47
 Operator : SY/AP
 Sample : J4967-03RE
 Misc : 4.17G/5ML/MSVOA_W/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 19 07:10:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	248059	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	395063	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	335018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	130138	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	117134	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	7.89	113	92888	41.93	ug/l	0.00
Spiked Amount			Recovery	=	83.86%	
50) Toluene-d8	10.33	98	333631	32.89	ug/l	0.00
Spiked Amount			Recovery	=	65.78%	
62) 4-Bromofluorobenzene	12.62	95	123024	33.08	ug/l	0.00
Spiked Amount			Recovery	=	66.16%	

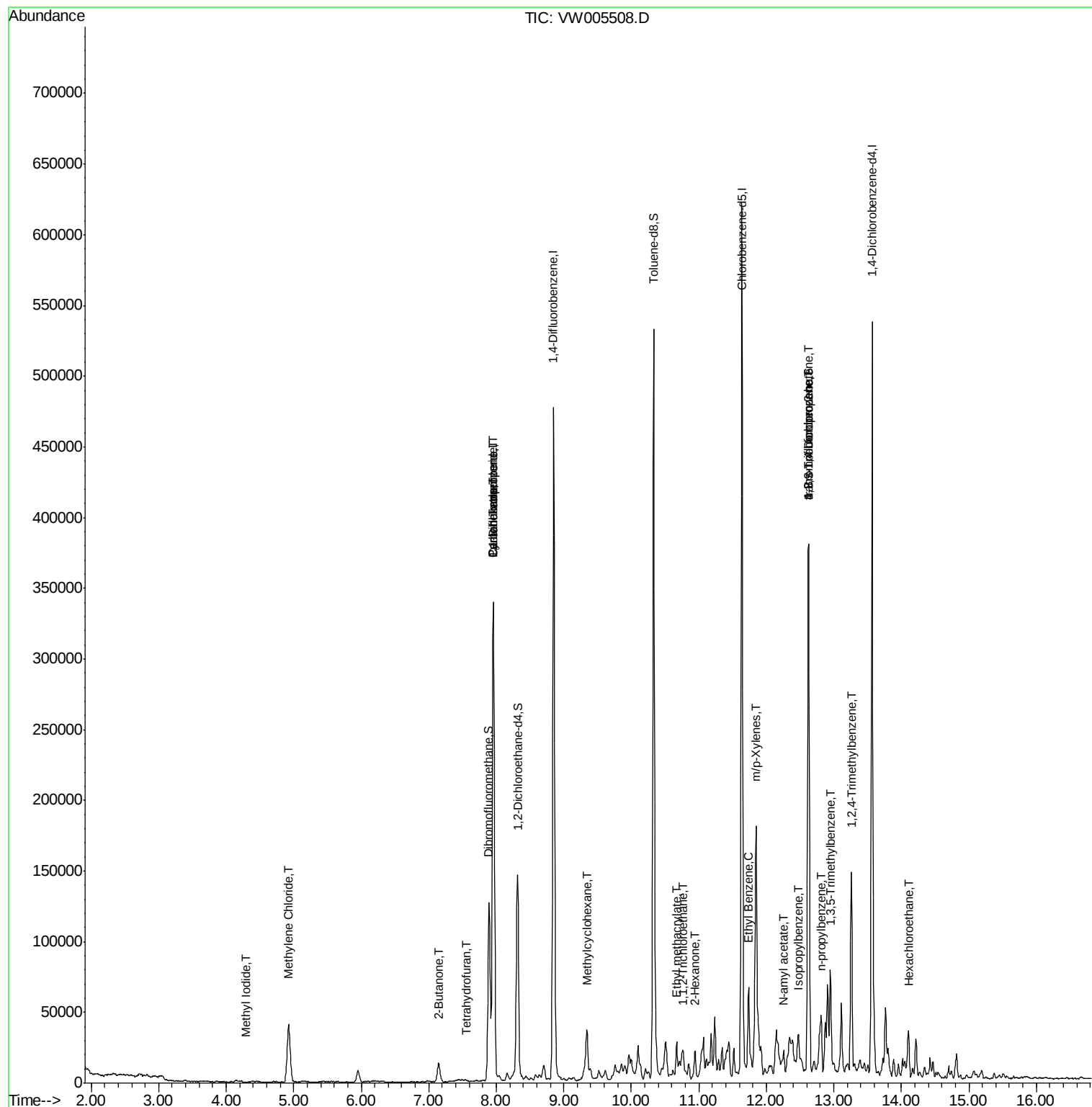
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	287	Below Cal		82
5) Bromomethane	2.79	94	394	Below Cal	#	25
10) Methyl Iodide	4.29	142	170	4.109	ug/l #	38
11) Tert butyl alcohol	5.23	59	122	Below Cal	#	71
16) Acetone	4.13	43	2417	Below Cal	#	81
20) Methylene Chloride	4.92	84	31003	7.226	ug/l	93
25) 2-Butanone	7.16	43	984	1.589	ug/l #	49
29) Tetrahydrofuran	7.56	42	554	1.404	ug/l #	58
31) Cyclohexane	7.96	56	7229	1.759	ug/l #	26
36) 1,1-Dichloropropene	7.96	75	19954	5.337	ug/l #	50
38) Carbon Tetrachloride	7.96	117	24762	6.356	ug/l #	16
39) Methylcyclohexane	9.34	83	10553	2.429	ug/l	94
55) 1,1,2-Trichloroethane	10.77	97	4953	2.618	ug/l #	23
56) Ethyl methacrylate	10.67	69	2601	1.086	ug/l #	12
59) 2-Hexanone	10.94	43	7616	7.320	ug/l #	30
67) Ethyl Benzene	11.74	91	37500	2.999	ug/l	99
68) m/p-Xylenes	11.85	106	52646	10.940	ug/l	99
73) Isopropylbenzene	12.47	105	13042	1.428	ug/l	98
74) N-amyl acetate	12.26	43	4079	2.120	ug/l #	59
76) 1,2,3-Trichloropropane	12.62	75	64369	60.138	ug/l #	100
78) n-propylbenzene	12.81	91	28165	2.556	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	24984	3.136	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.62	75	64369	156.002	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.26	105	77927	9.635	ug/l	99
90) Hexachloroethane	14.11	117	2127	1.452	ug/l #	7

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 15 02:32:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

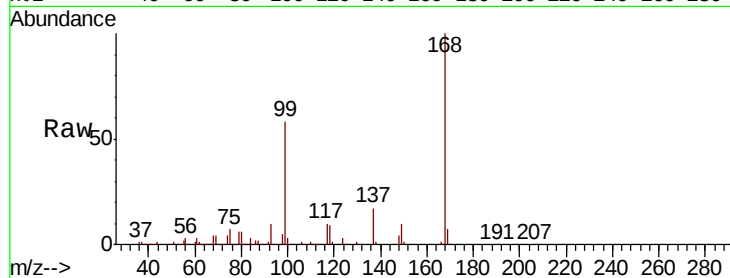
ClientSampled :

Tgt Ion:168 Resp: 248059

Ion Ratio Lower Upper

168 100

99 58.3 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

120000

100000

80000

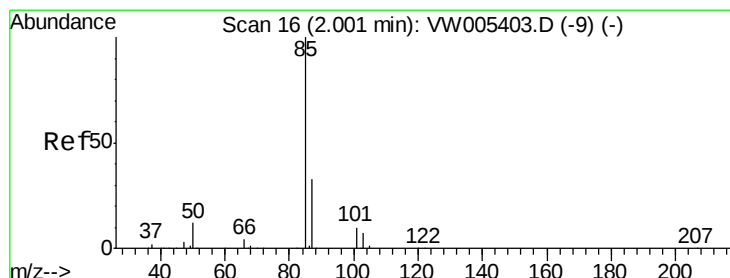
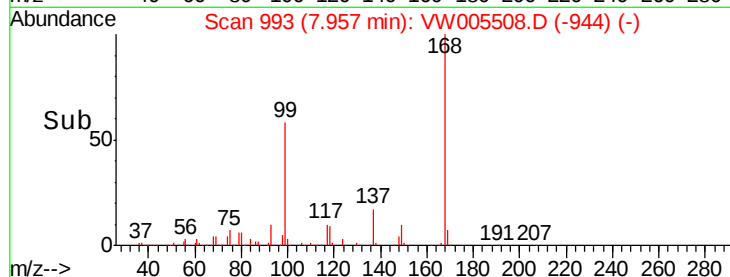
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005508.D

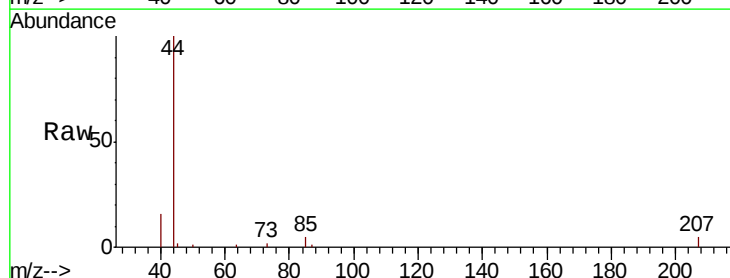
Acq: 19 Sep 2018 05:47

Tgt Ion: 85 Resp: 287

Ion Ratio Lower Upper

85 100

87 22.8 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

300

250

200

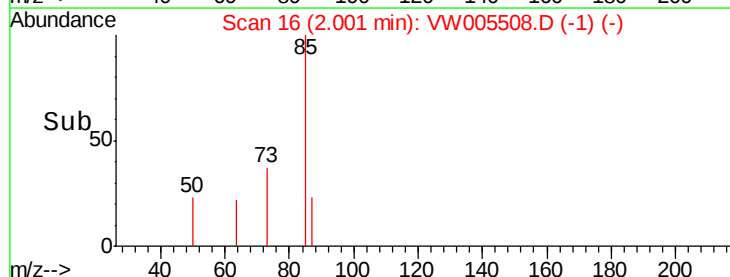
150

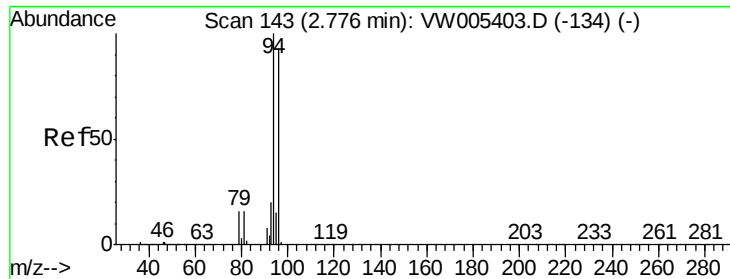
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 146

Delta R.T. 0.02 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

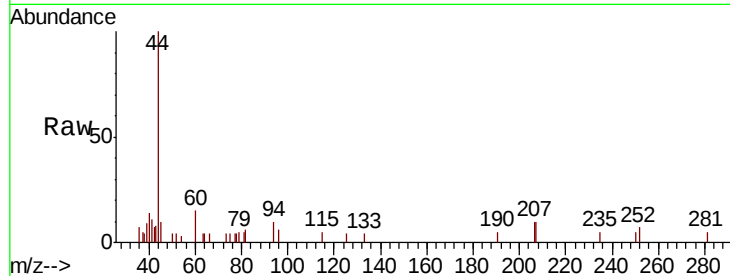
ClientSampled :

Tgt Ion: 94 Resp: 394

Ion Ratio Lower Upper

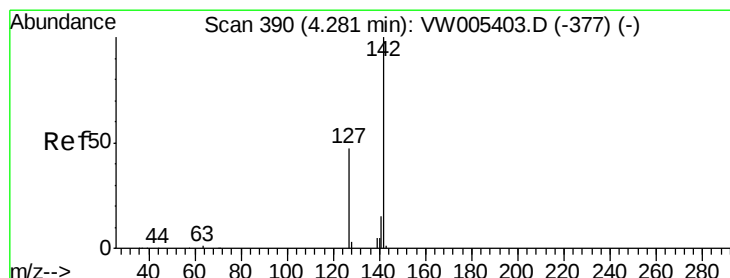
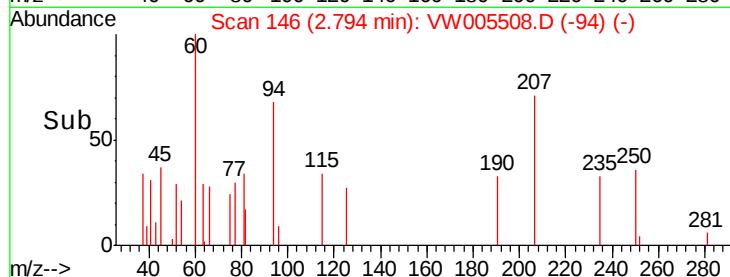
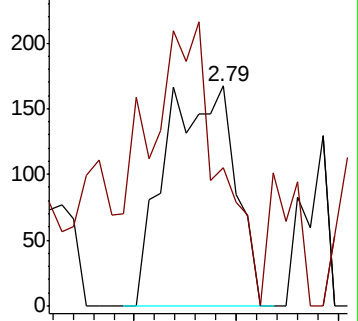
94 100

96 21.0 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#10

Methyl Iodide

Concen: 4.109 ug/l

RT: 4.29 min Scan# 392

Delta R.T. 0.01 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

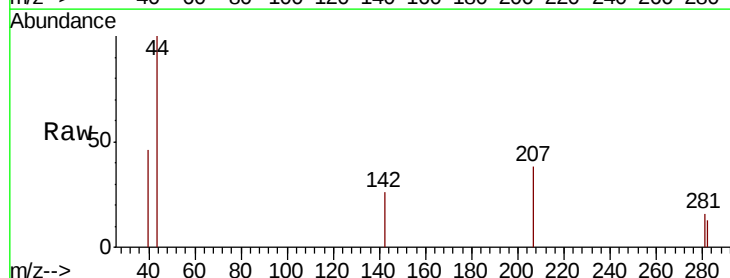
Tgt Ion: 142 Resp: 170

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

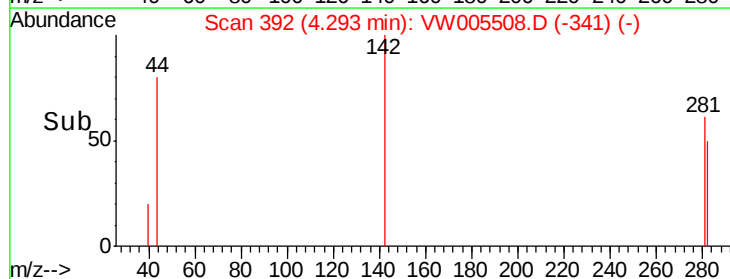
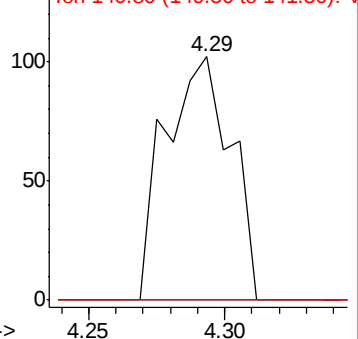
141 0.0 12.4 18.6#

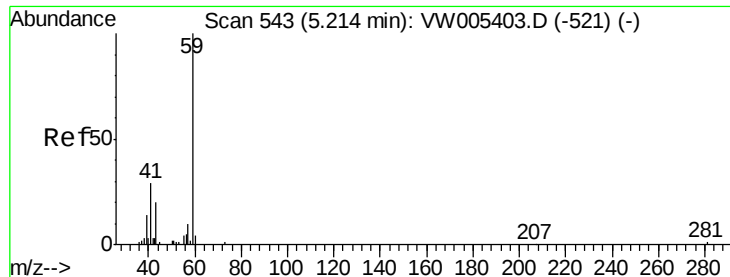


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

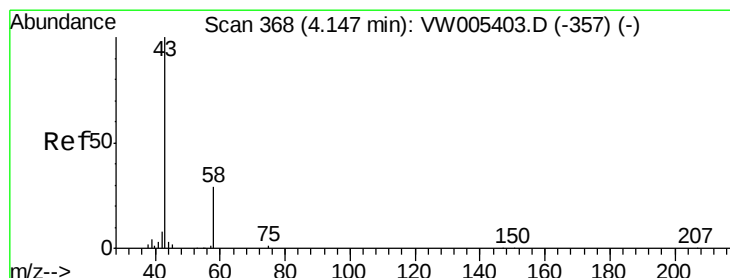
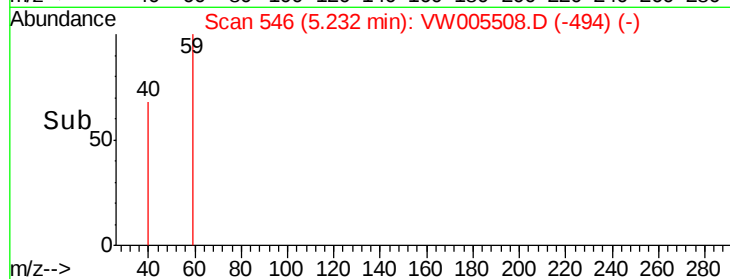
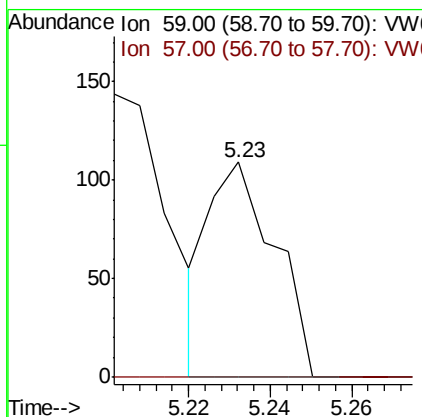
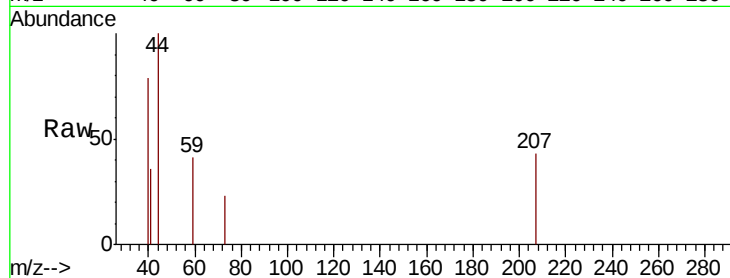




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.23 min Scan# 546
Delta R.T. 0.02 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

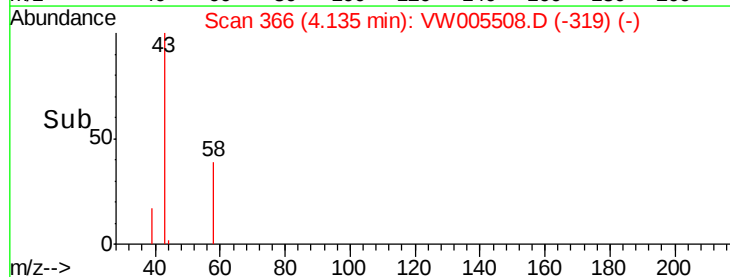
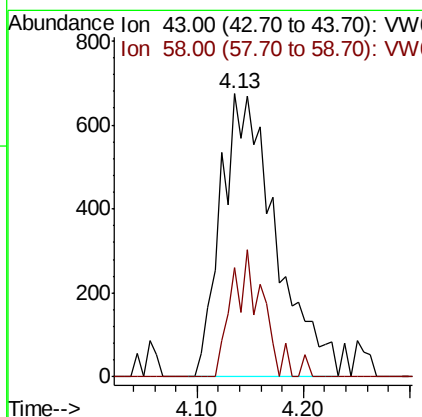
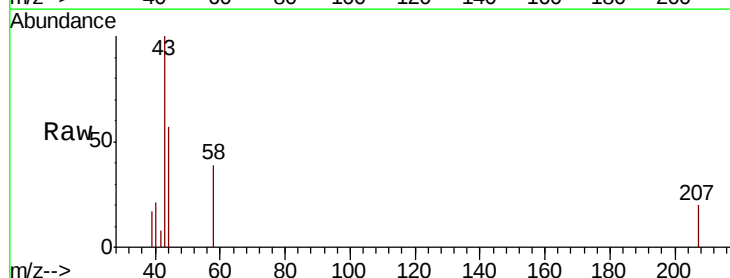
Instrument :
MSVOA_W
ClientSampleId :

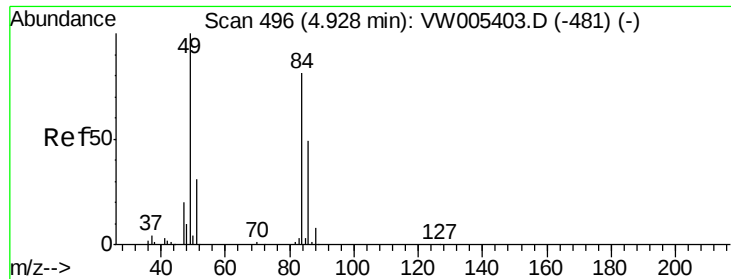
Tgt Ion: 59 Resp: 122
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: Below Cal
RT: 4.13 min Scan# 366
Delta R.T. -0.01 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Tgt Ion: 43 Resp: 2417
Ion Ratio Lower Upper
43 100
58 38.7 22.8 34.2#

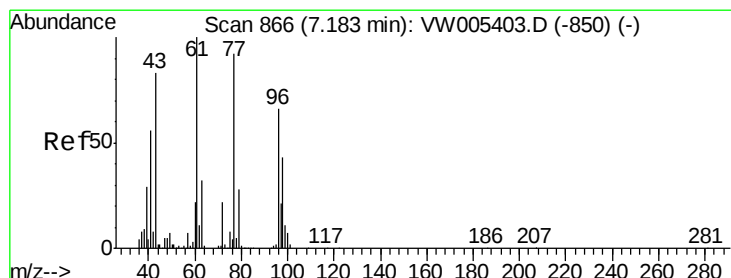
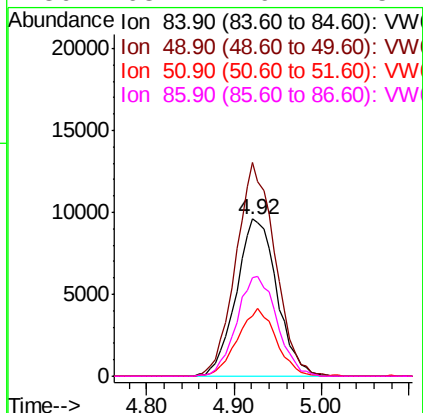
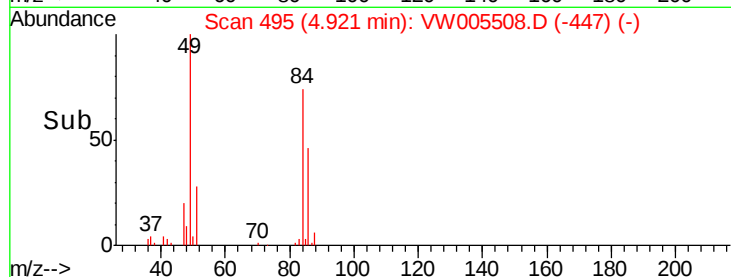
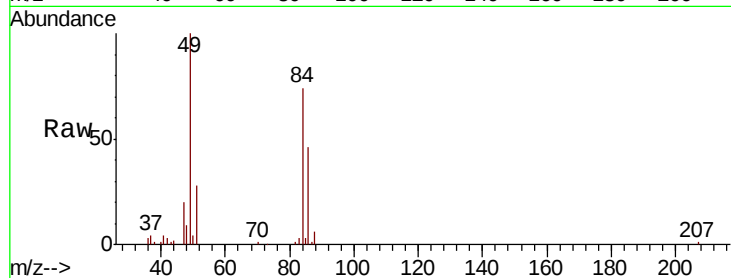




#20
Methylene Chloride
Concen: 7.226 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.01 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

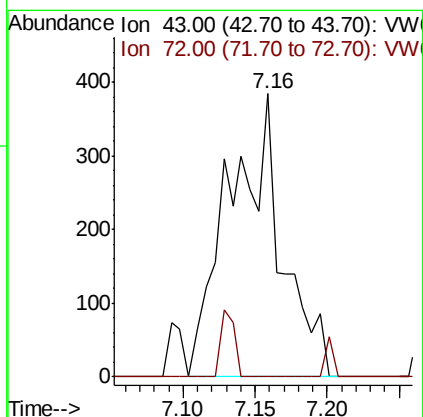
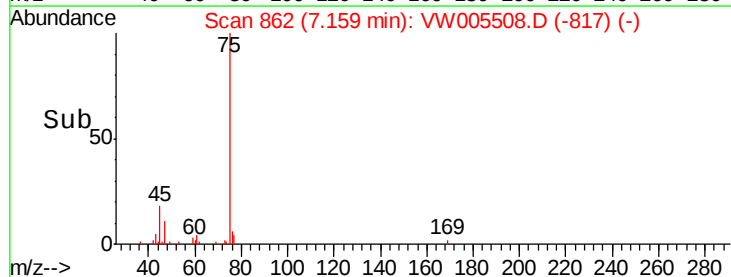
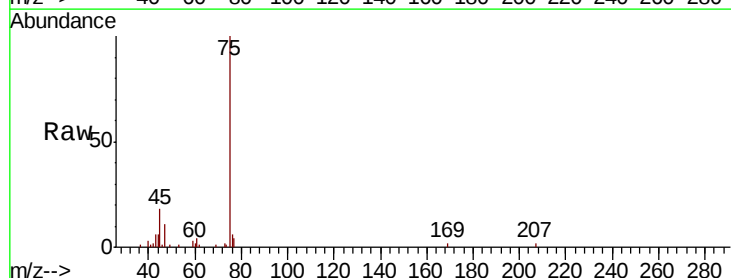
Instrument :
MSVOA_W
ClientSampleId :

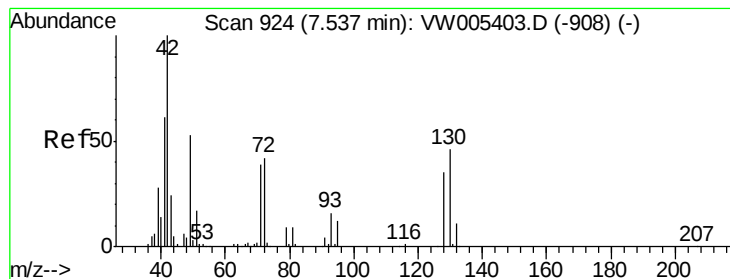
Tgt Ion: 84 Resp: 31003
Ion Ratio Lower Upper
84 100
49 136.0 99.3 148.9
51 38.5 31.1 46.7
86 63.1 49.1 73.7



#25
2-Butanone
Concen: 1.589 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.02 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Tgt Ion: 43 Resp: 984
Ion Ratio Lower Upper
43 100
72 0.0 21.1 31.7#





#29

Tetrahydrofuran

Concen: 1.404 ug/l

RT: 7.56 min Scan# 928

Delta R.T. 0.02 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

ClientSampleId :

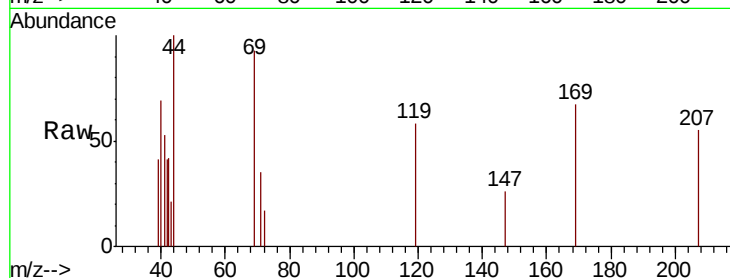
Tgt Ion: 42 Resp: 554

Ion Ratio Lower Upper

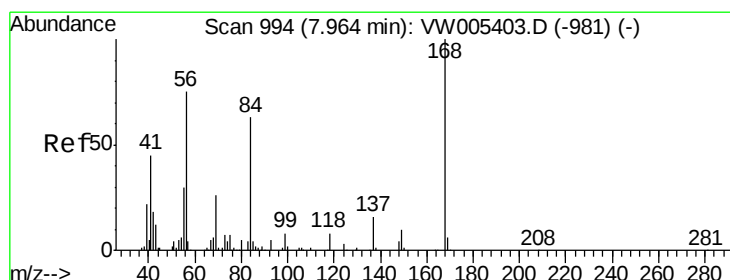
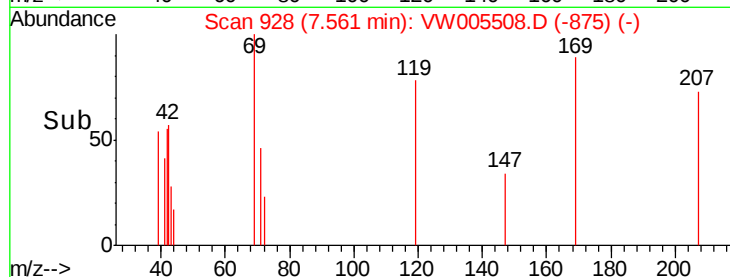
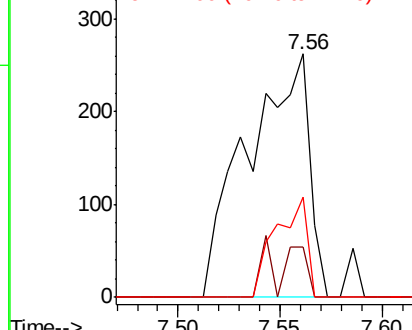
42 100

72 7.2 33.2 49.8#

71 21.3 31.0 46.6#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.759 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

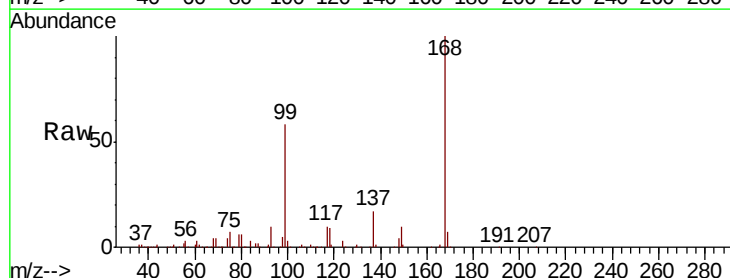
Tgt Ion: 56 Resp: 7229

Ion Ratio Lower Upper

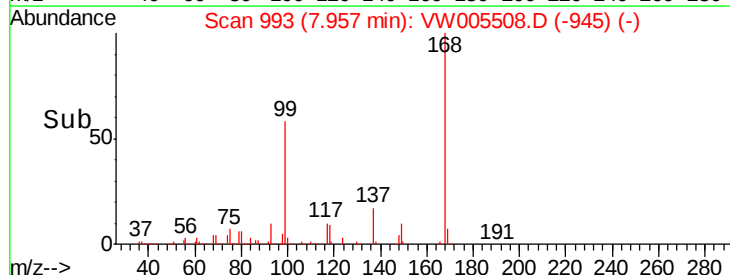
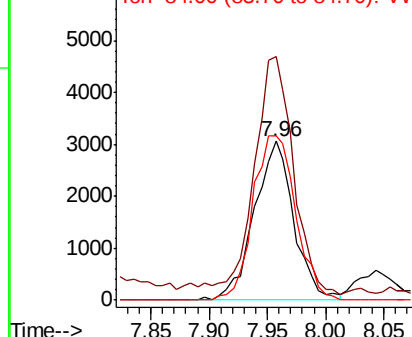
56 100

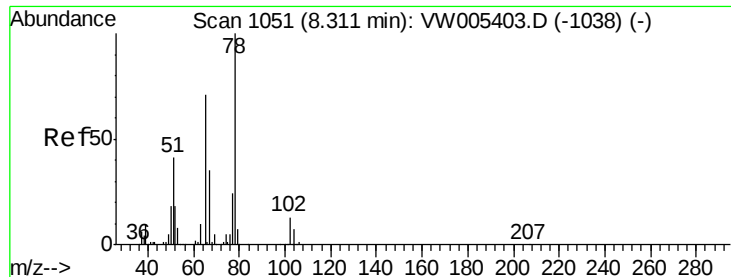
69 150.0 27.2 40.8#

84 103.3 66.7 100.1#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

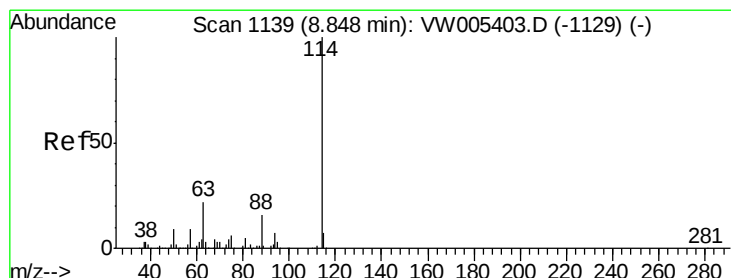
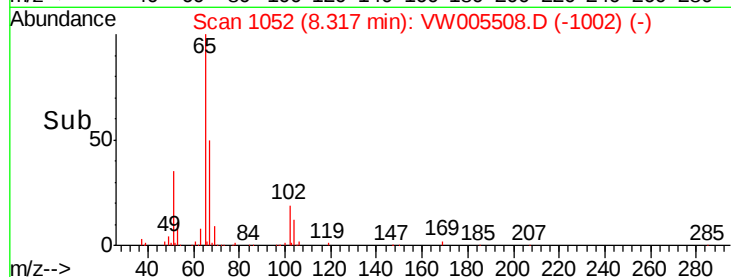
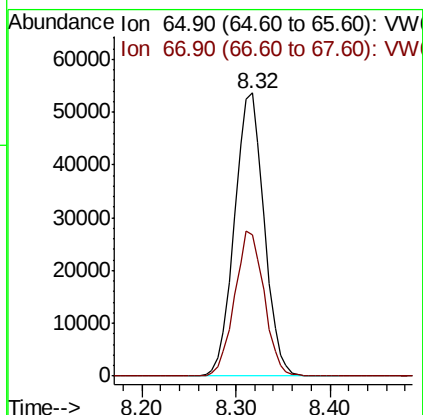
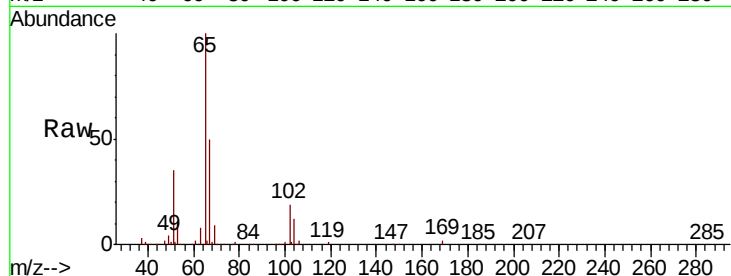




#33
 1,2-Dichloroethane-d4
 Concen: 45.491 ug/l
 RT: 8.32 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

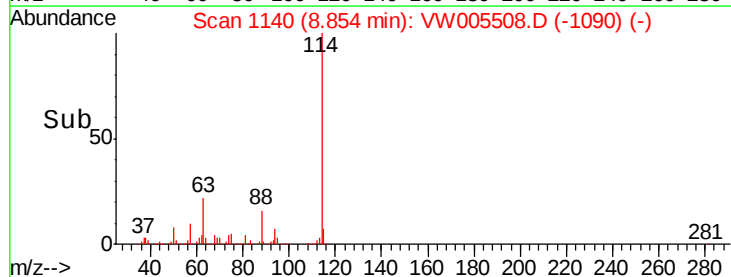
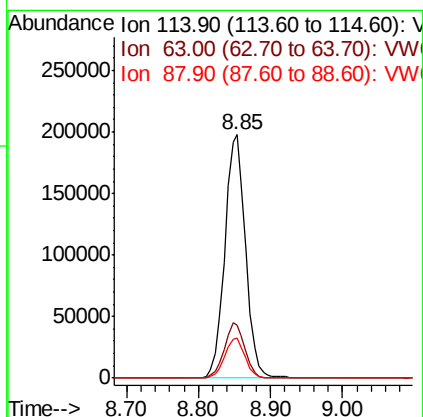
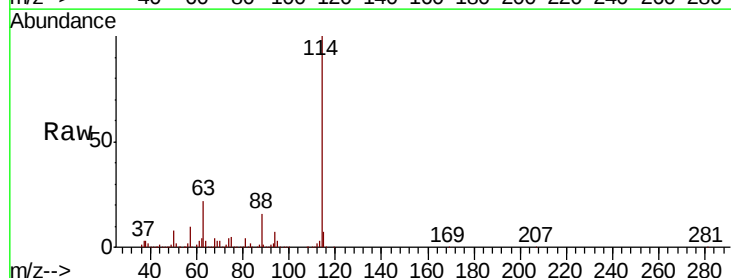
Instrument :
 MSVOA_W
 ClientSampleId :

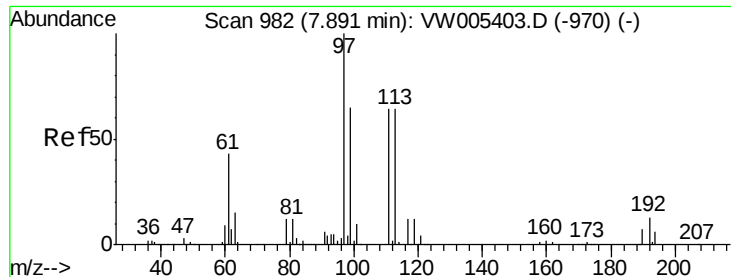
Tgt Ion: 65 Resp: 117134
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

Tgt Ion: 114 Resp: 395063
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.4
 88 16.4 0.0 31.8

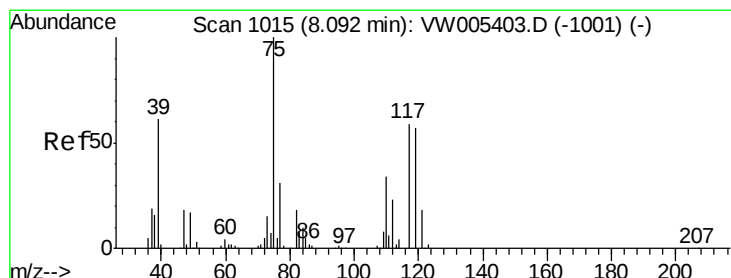
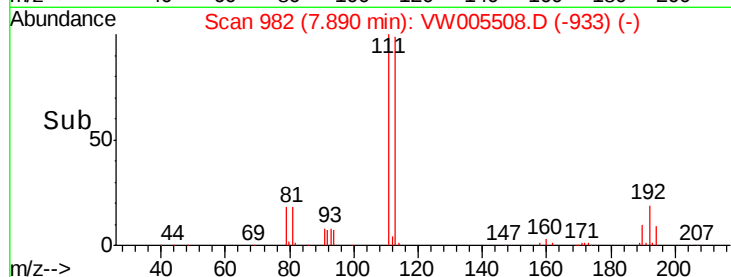
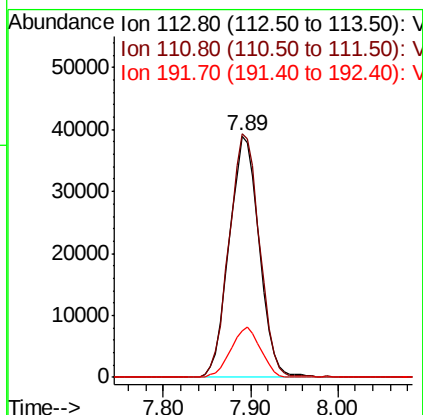
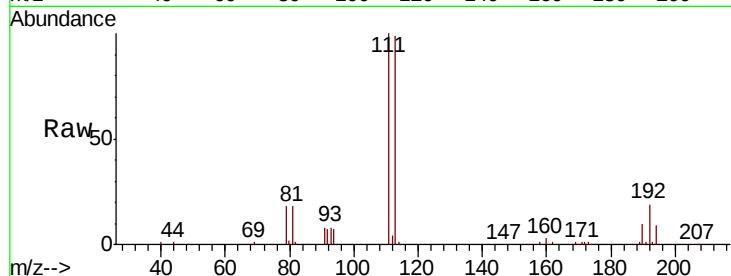




#35
 Dibromofluoromethane
 Concen: 41.935 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

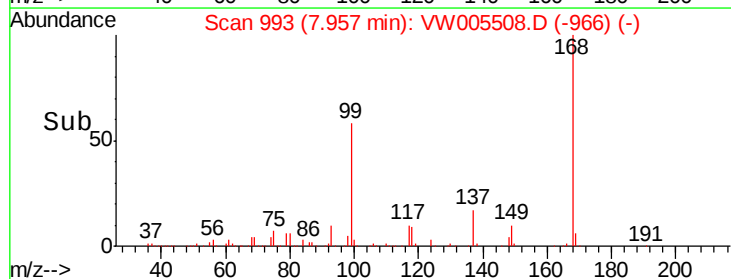
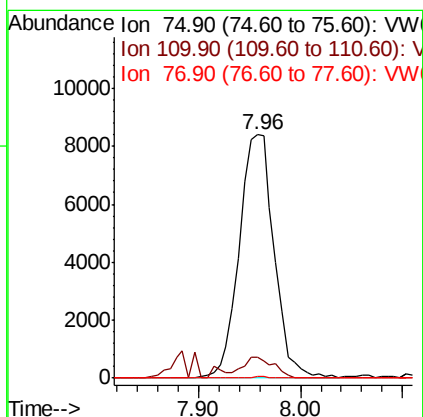
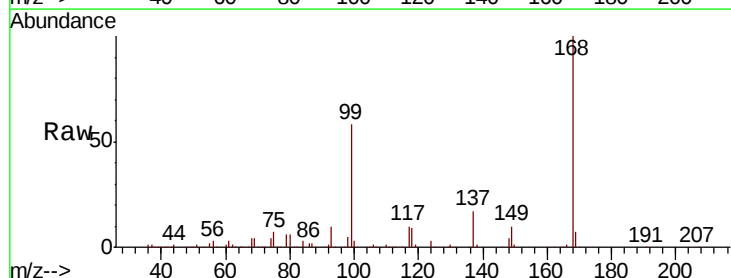
Instrument :
 MSVOA_W
 ClientSampled :

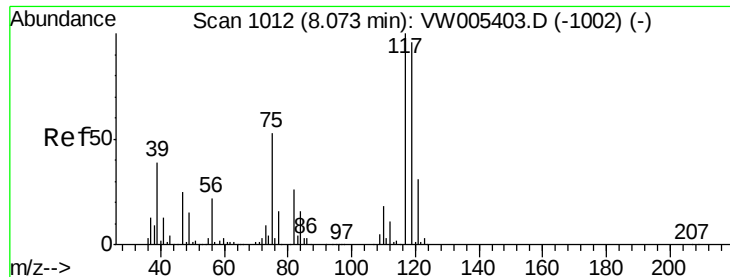
Tgt Ion:113 Resp: 92888
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.3 123.5
 192 20.7 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.337 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

Tgt Ion: 75 Resp: 19954
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.8 50.4#
 77 0.3 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.356 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

ClientSampled :

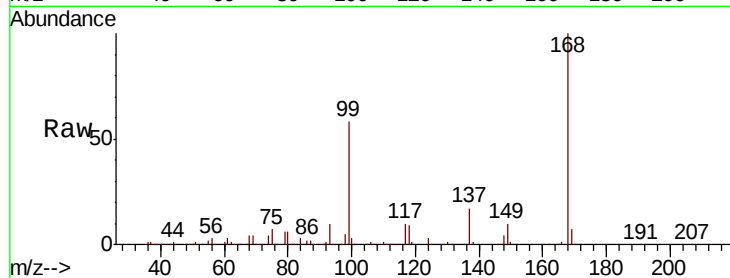
Tgt Ion: 117 Resp: 24762

Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

121 0.0 24.7 37.1#

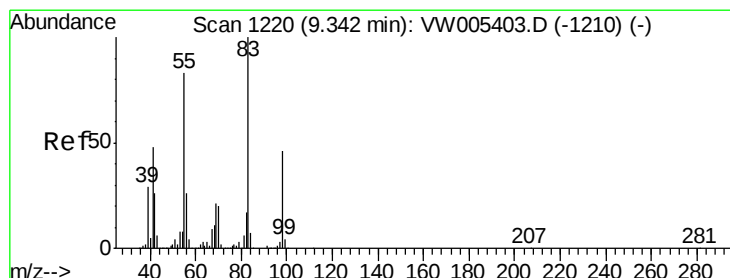
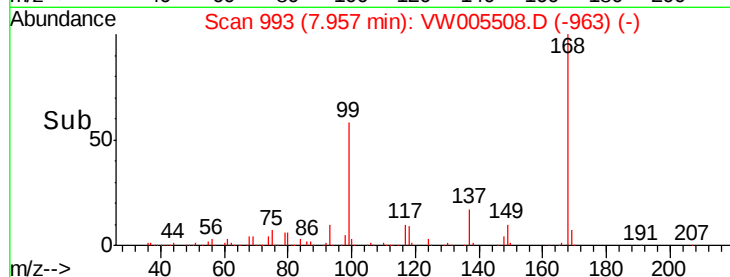
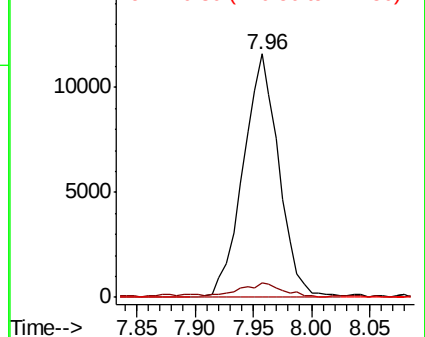


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 2.429 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. -0.00 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

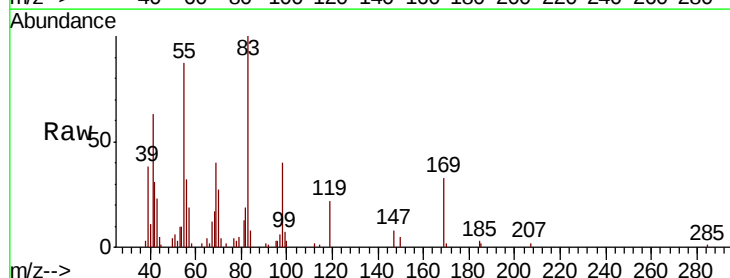
Tgt Ion: 83 Resp: 10553

Ion Ratio Lower Upper

83 100

55 86.6 66.1 99.1

98 39.7 36.7 55.1

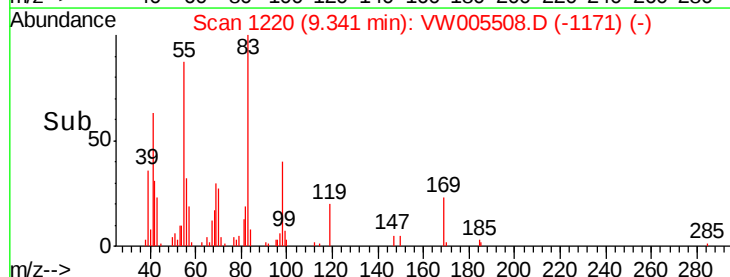
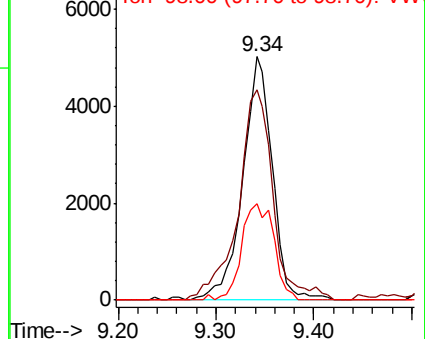


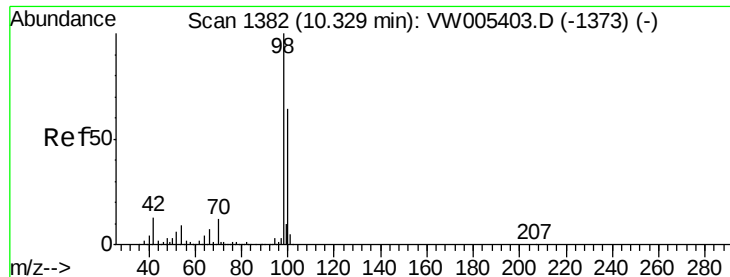
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 32.890 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

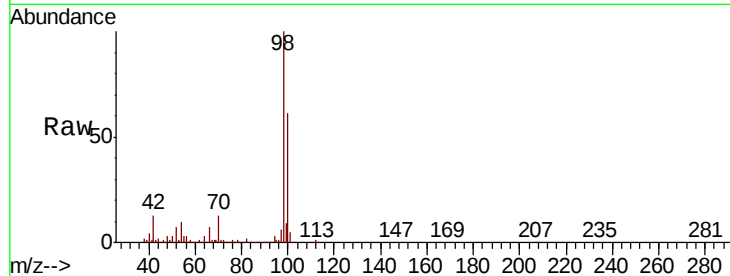
ClientSampleId :

Tgt Ion: 98 Resp: 333631

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

200000

150000

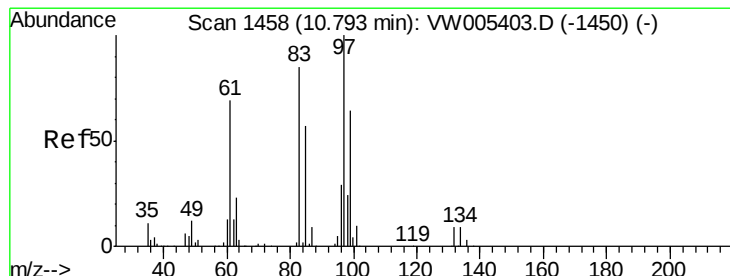
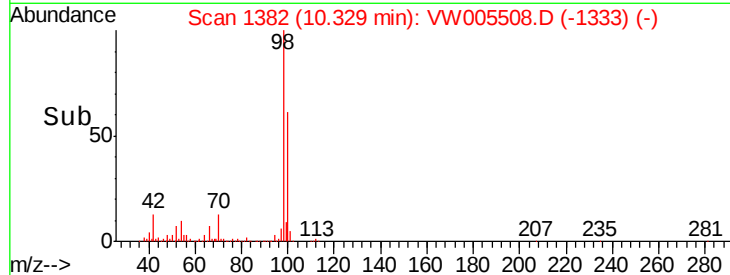
100000

50000

0

10.20 10.30 10.40 10.50

Time-->



#55

1,1,2-Trichloroethane

Concen: 2.618 ug/l

RT: 10.77 min Scan# 1454

Delta R.T. -0.02 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Tgt Ion: 97 Resp: 4953

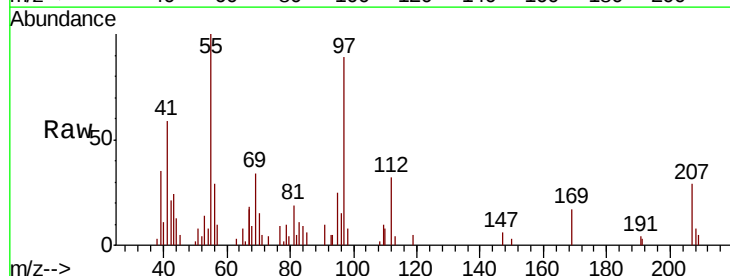
Ion Ratio Lower Upper

97 100

83 12.5 67.8 101.8#

85 6.8 45.4 68.0#

99 0.0 51.5 77.3#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

3000

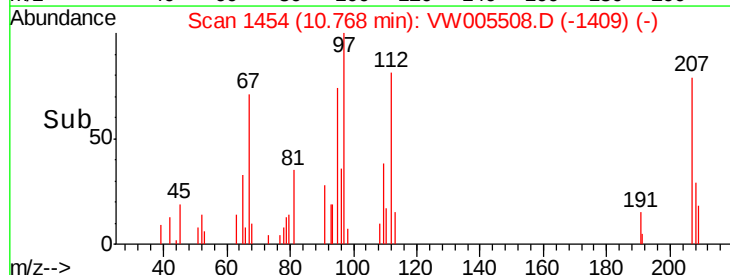
2000

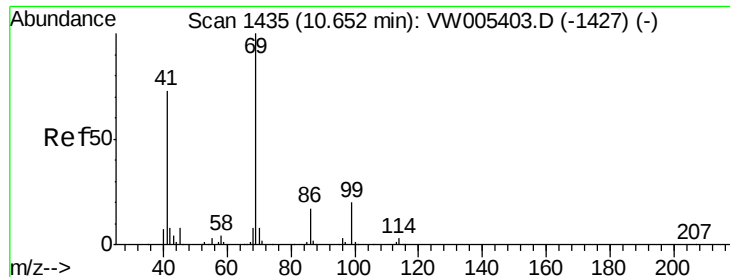
1000

0

10.70 10.75 10.80

Time-->





#56

Ethyl methacrylate

Concen: 1.086 ug/l

RT: 10.67 min Scan# 1438

Delta R.T. 0.02 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

ClientSampleId :

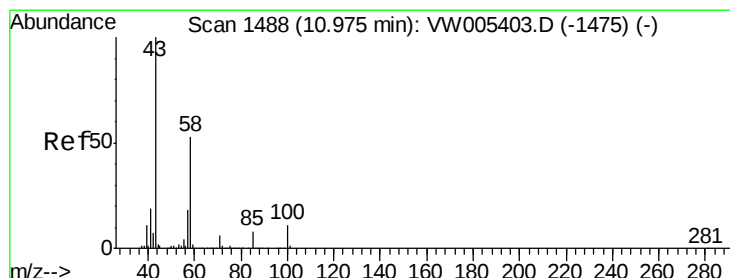
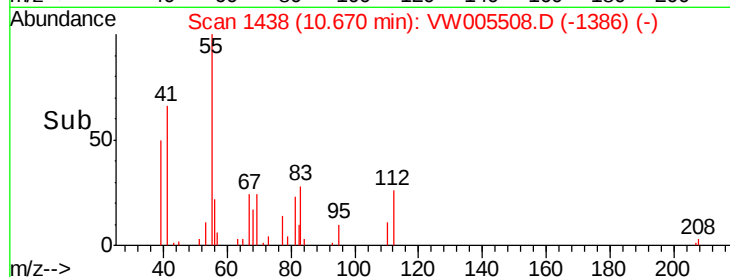
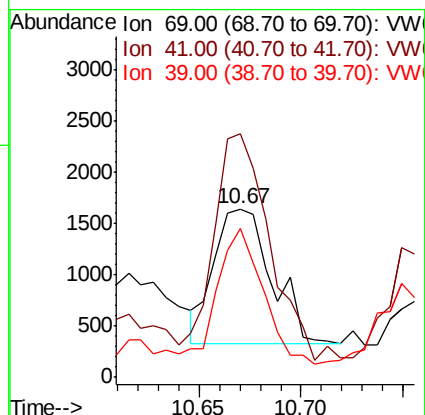
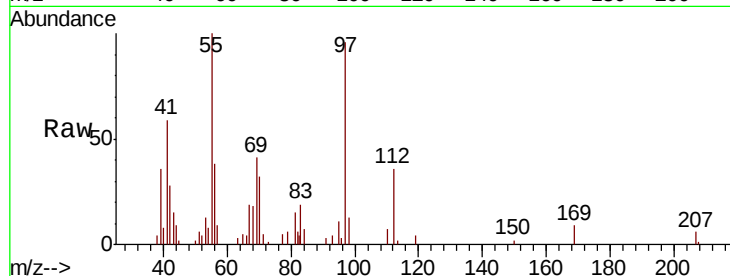
Tgt Ion: 69 Resp: 2601

Ion Ratio Lower Upper

69 100

41 157.7 59.3 88.9#

39 77.8 30.2 45.4#



#59

2-Hexanone

Concen: 7.320 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.04 min

Lab File: VW005508.D

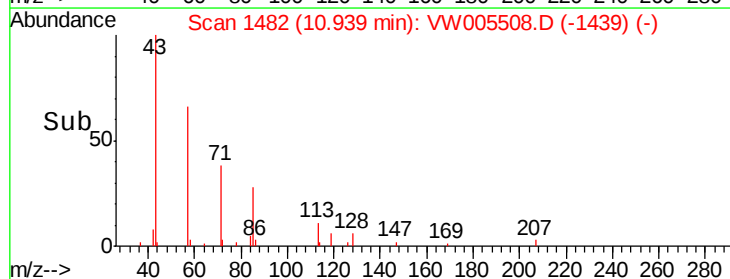
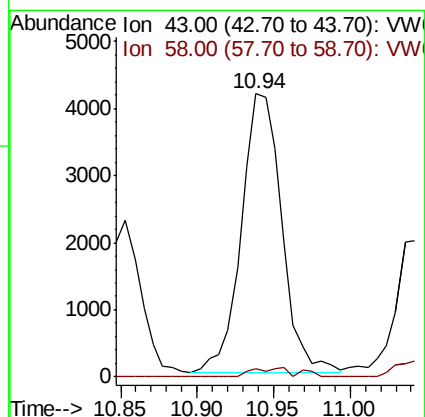
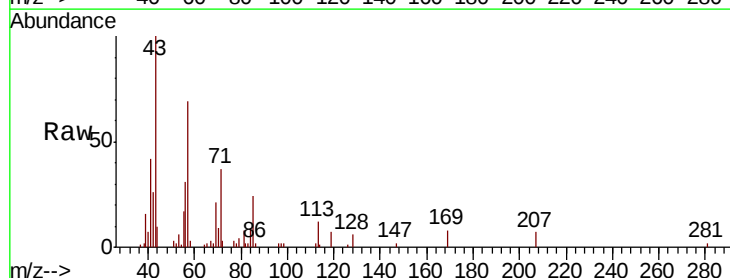
Acq: 19 Sep 2018 05:47

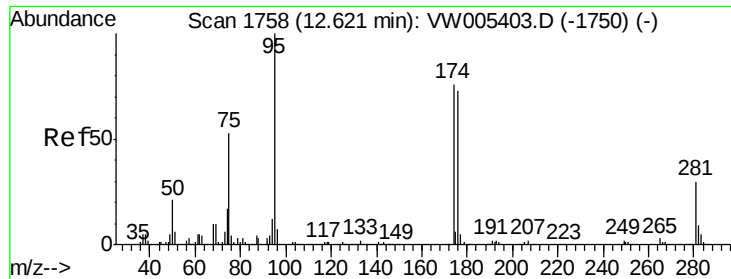
Tgt Ion: 43 Resp: 7616

Ion Ratio Lower Upper

43 100

58 2.6 25.5 76.5#

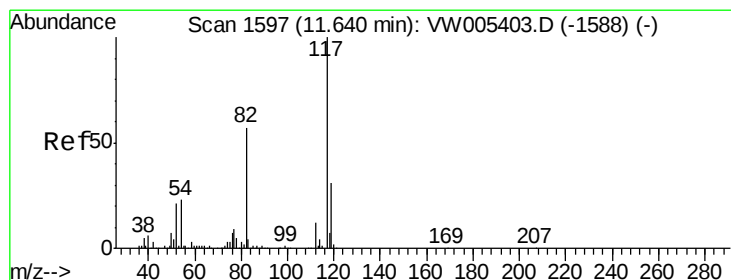
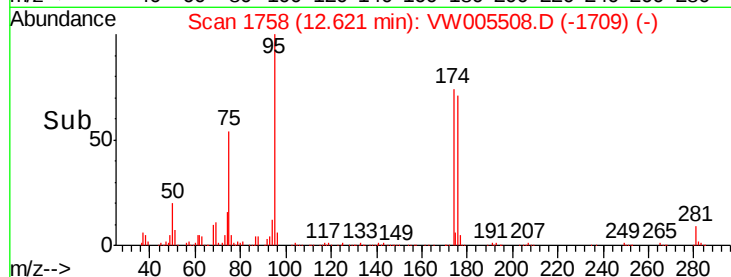
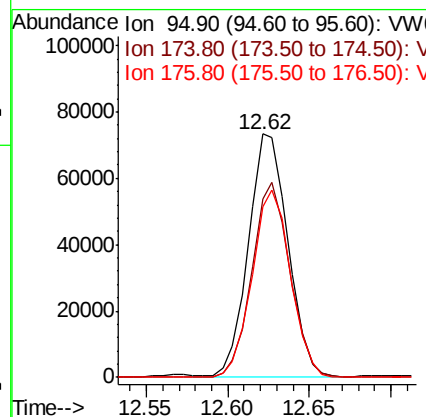
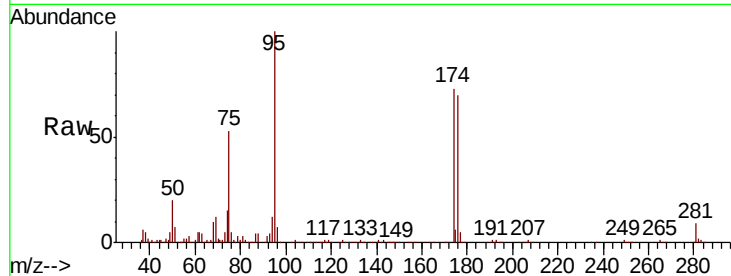




#62
4-Bromofluorobenzene
Concen: 33.076 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

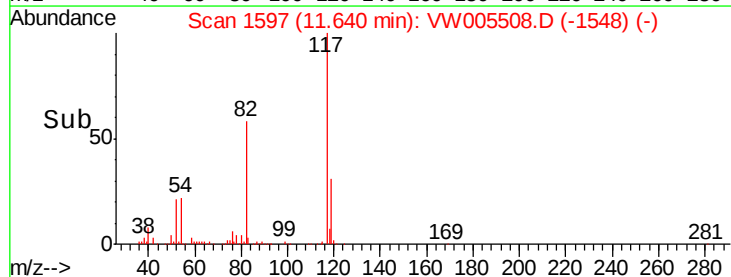
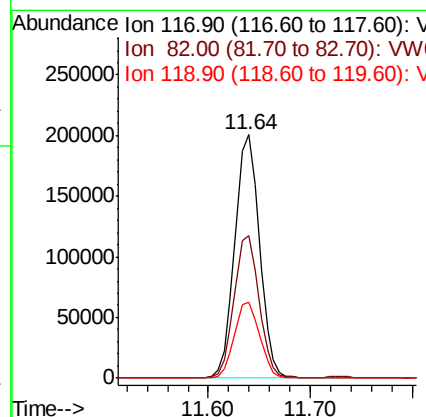
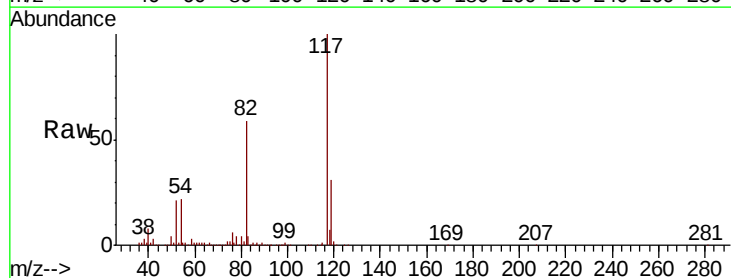
Instrument :
MSVOA_W
ClientSampleId :

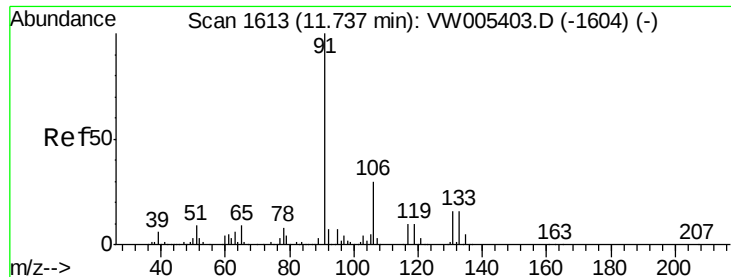
Tgt Ion: 95 Resp: 123024
Ion Ratio Lower Upper
95 100
174 77.5 0.0 161.2
176 75.2 0.0 156.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Tgt Ion: 117 Resp: 335018
Ion Ratio Lower Upper
117 100
82 58.4 45.9 68.9
119 30.9 24.8 37.2

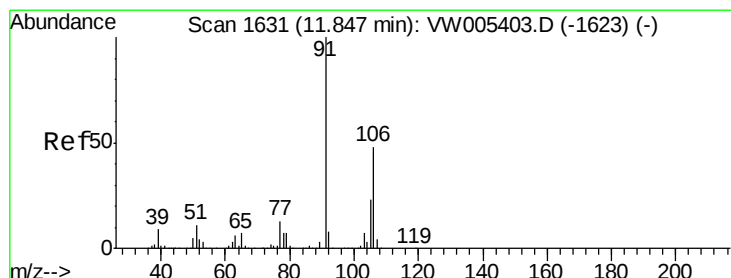
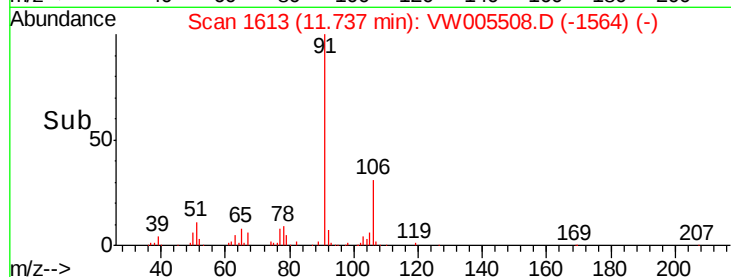
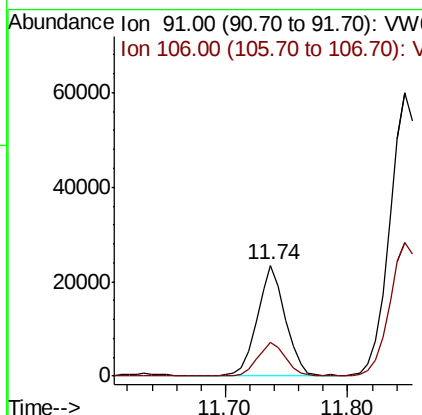
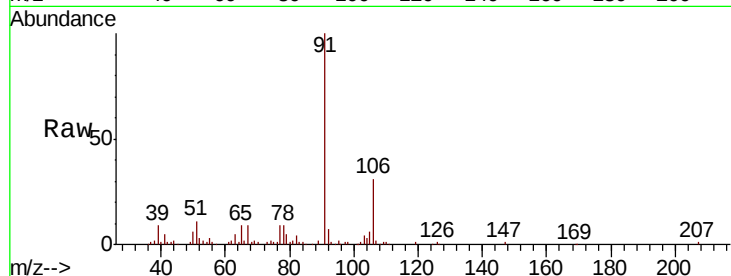




#67
Ethyl Benzene
Concen: 2.999 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. -0.00 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

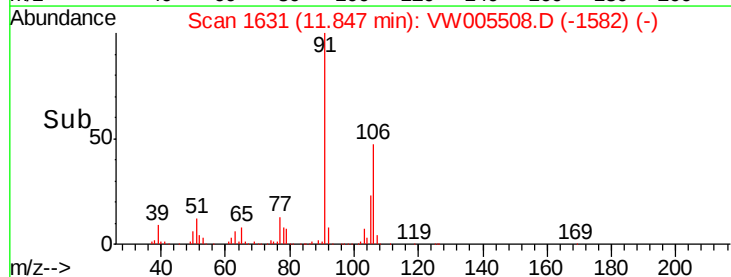
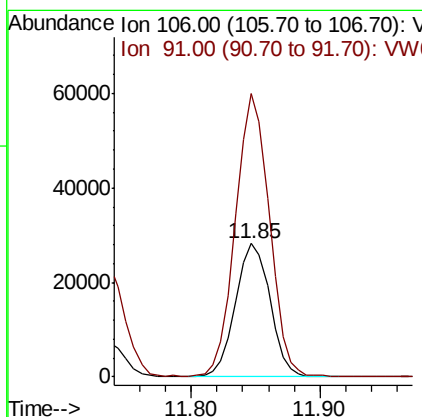
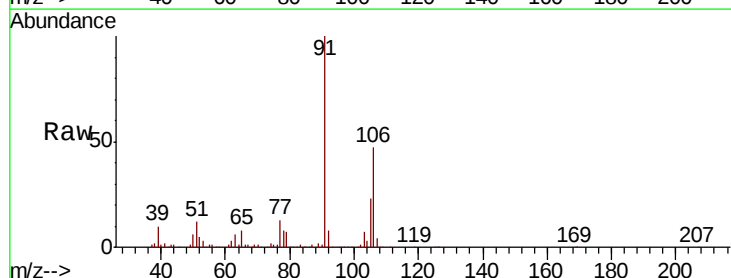
Instrument :
MSVOA_W
ClientSampleId :

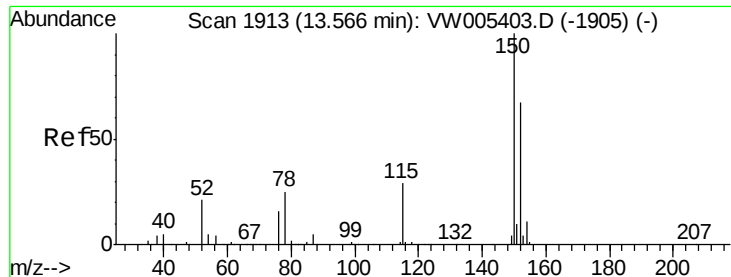
Tgt Ion: 91 Resp: 37500
Ion Ratio Lower Upper
91 100
106 31.0 24.2 36.4



#68
m/p-Xylenes
Concen: 10.940 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Tgt Ion: 106 Resp: 52646
Ion Ratio Lower Upper
106 100
91 207.6 167.9 251.9



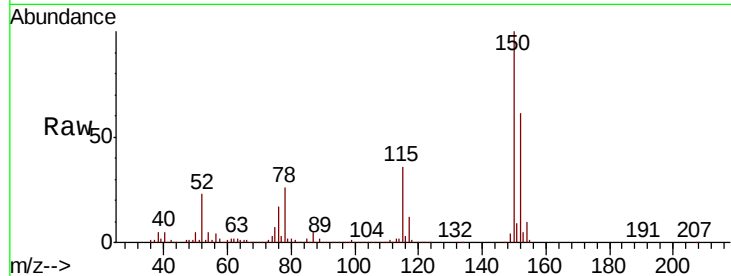


#72

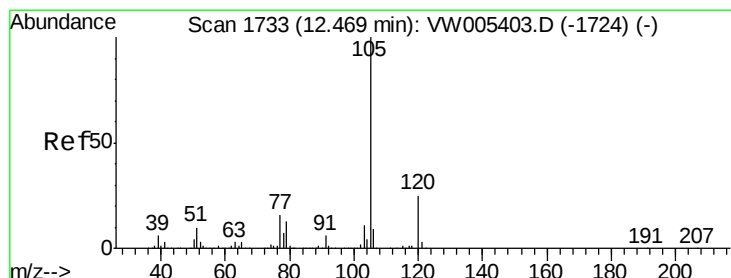
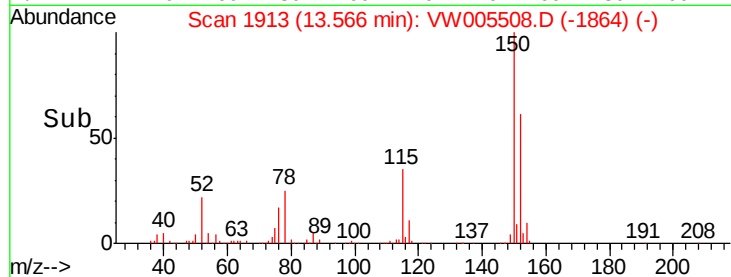
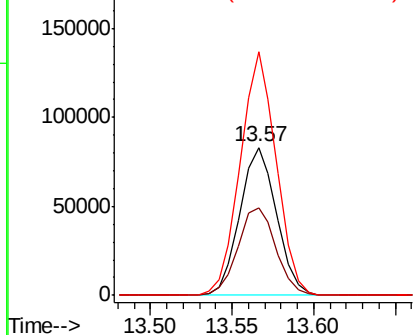
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.7	29.5	88.5
150	161.0	0.0	345.6



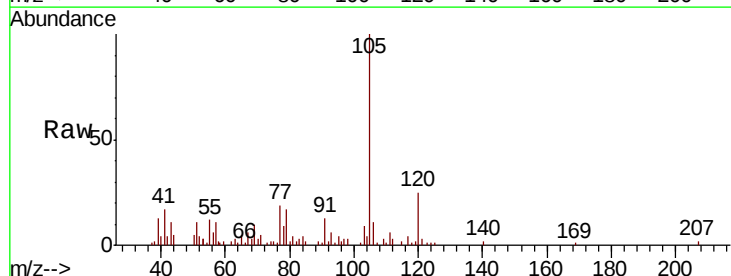
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



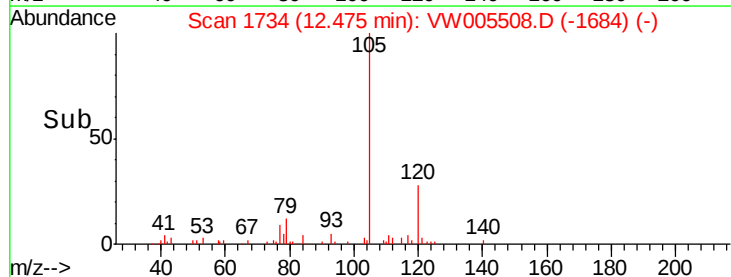
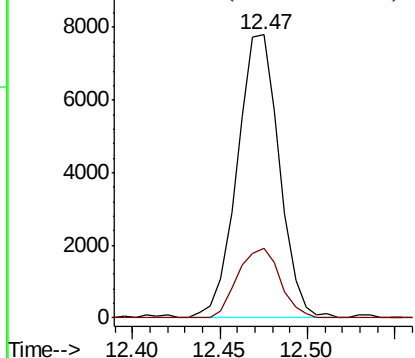
#73

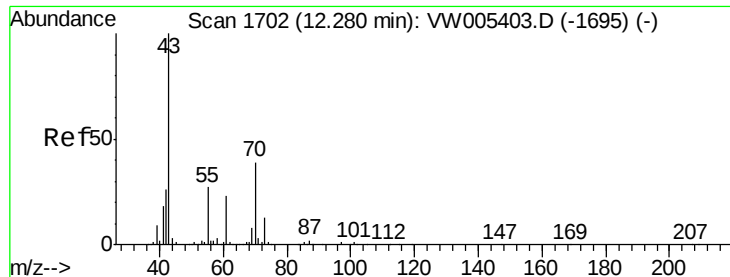
Isopropylbenzene
Concen: 1.428 ug/l
RT: 12.47 min Scan# 1734
Delta R.T. 0.01 min
Lab File: VW005508.D
Acq: 19 Sep 2018 05:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	12.9	38.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 2.120 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.02 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 43 Resp: 4079

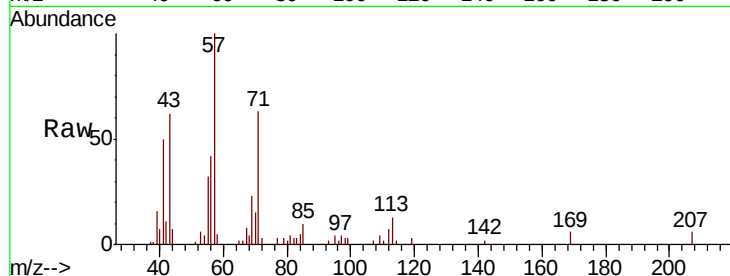
Ion Ratio Lower Upper

43 100

70 21.6 31.9 47.9#

55 0.0 21.4 32.0#

61 0.0 18.3 27.5#

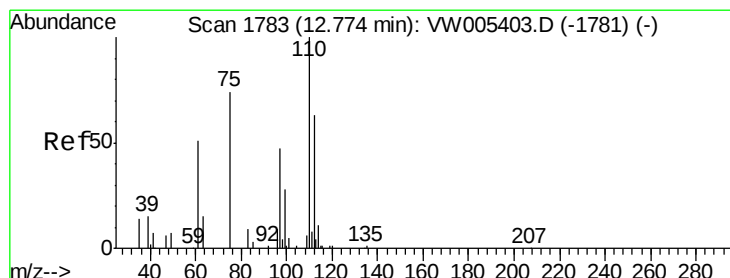
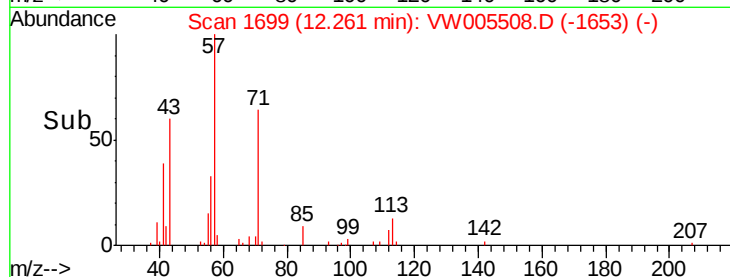
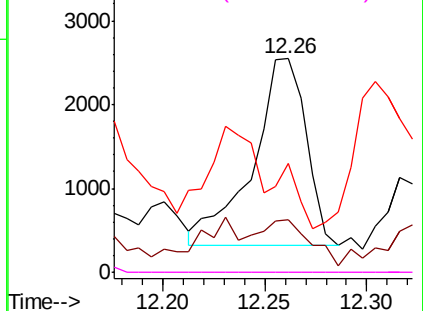


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 60.138 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005508.D

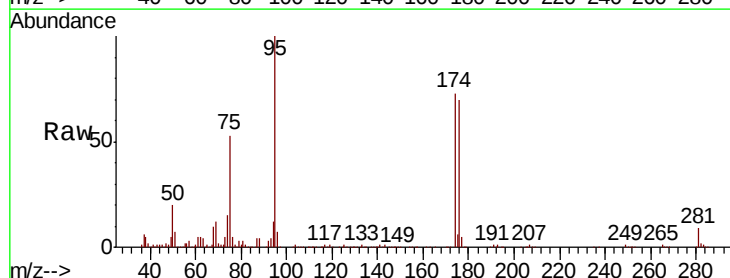
Acq: 19 Sep 2018 05:47

Tgt Ion: 75 Resp: 64369

Ion Ratio Lower Upper

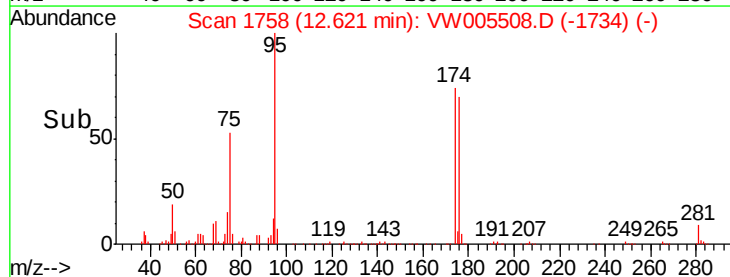
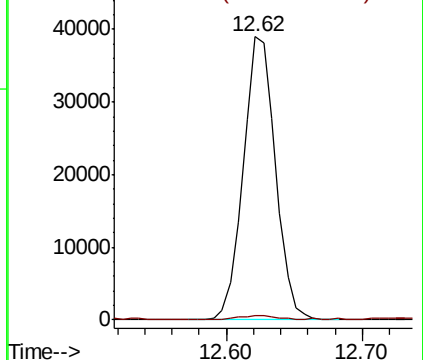
75 100

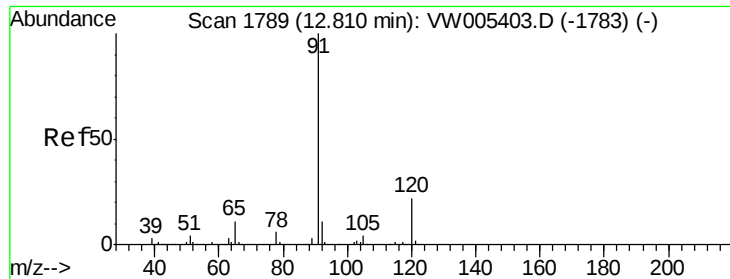
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 2.556 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

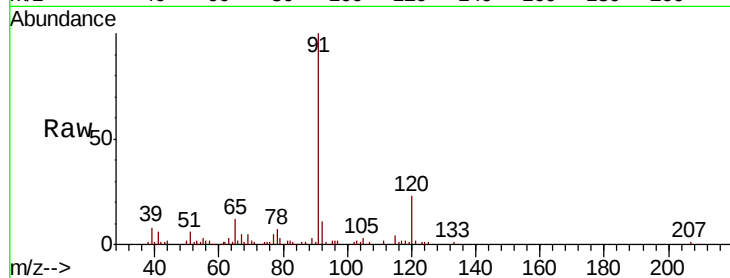
ClientSampleId :

Tgt Ion: 91 Resp: 28165

Ion Ratio Lower Upper

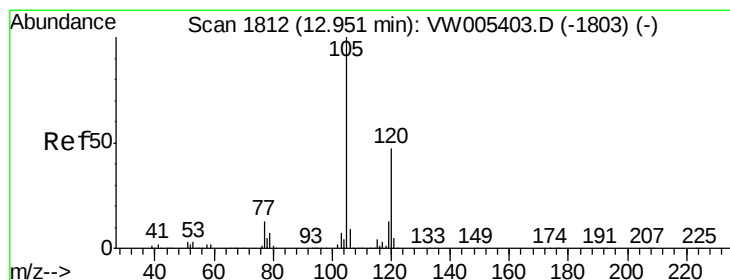
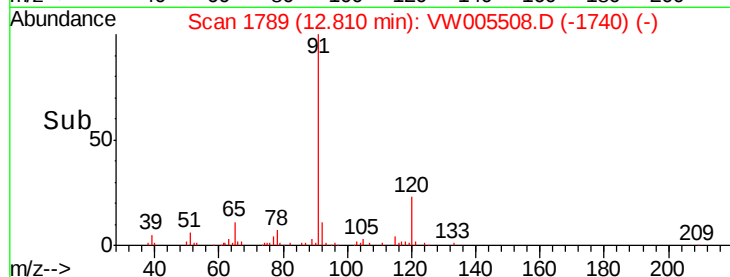
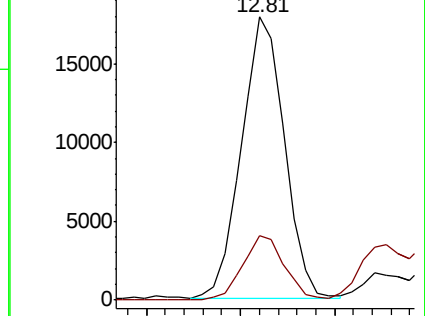
91 100

120 22.2 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.136 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005508.D

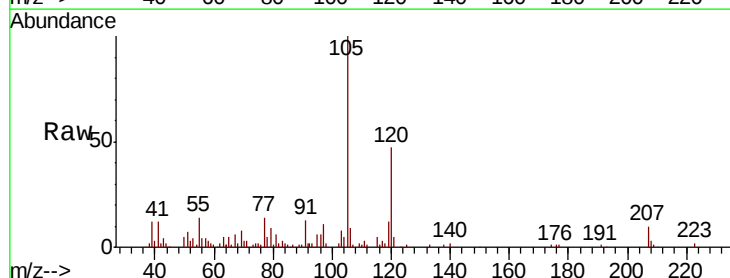
Acq: 19 Sep 2018 05:47

Tgt Ion:105 Resp: 24984

Ion Ratio Lower Upper

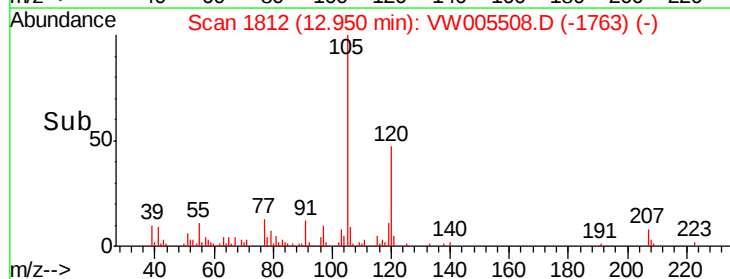
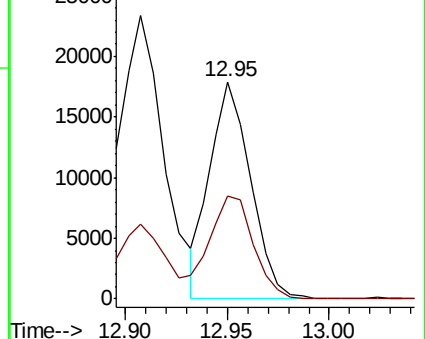
105 100

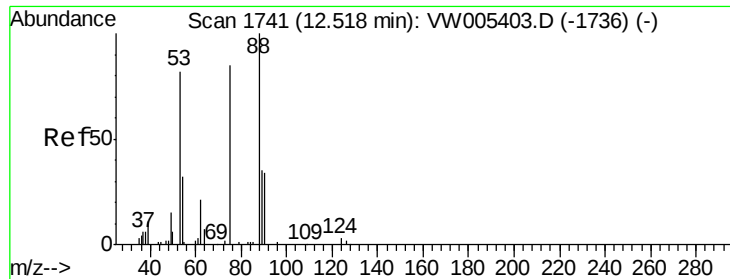
120 52.4 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

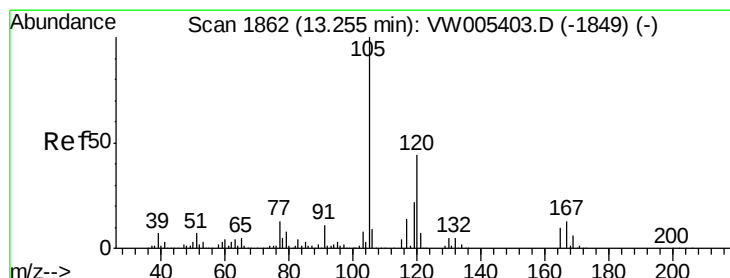
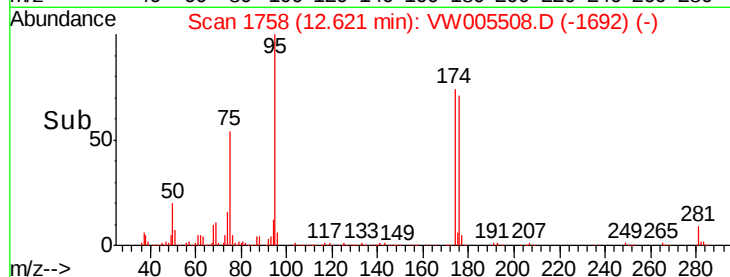
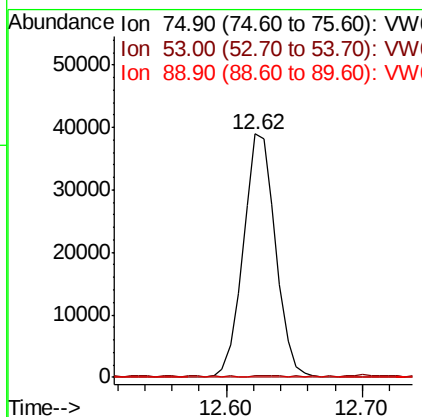
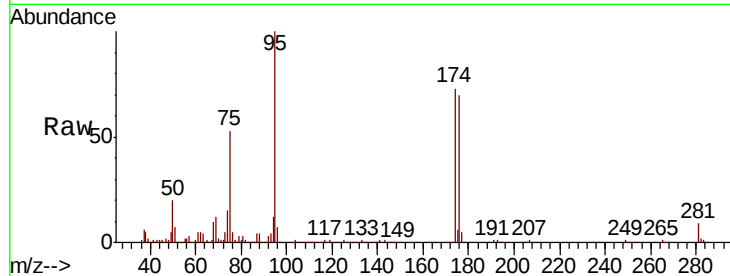




#81
 trans-1,4-Dichloro-2-butene
 Concen: 156.002 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

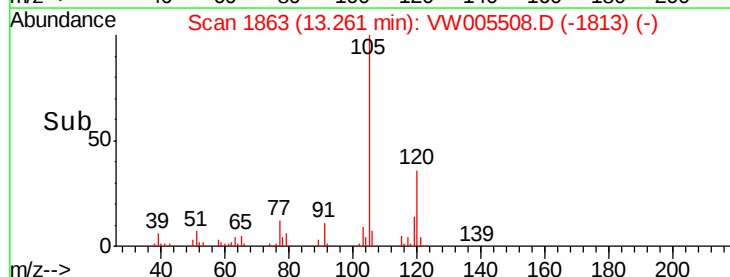
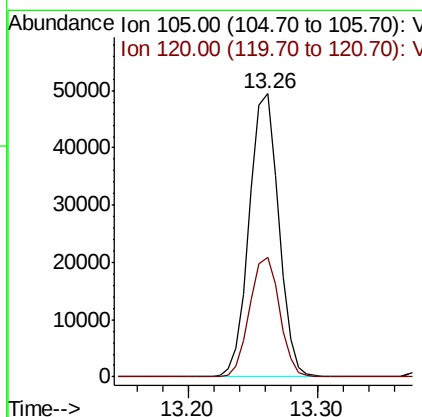
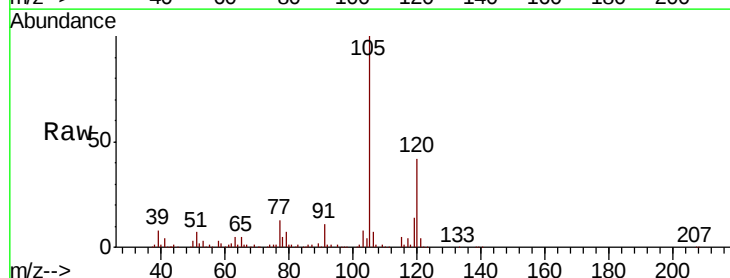
Instrument :
 MSVOA_W
 ClientSampleId :

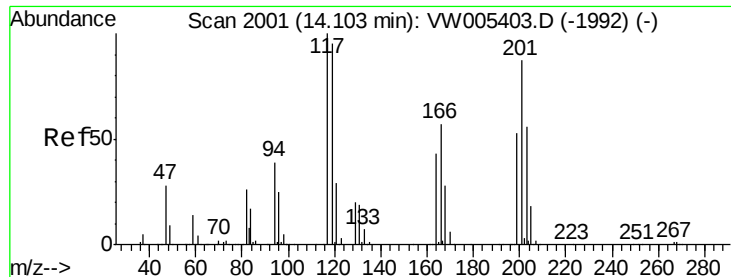
Tgt Ion: 75 Resp: 64369
 Ion Ratio Lower Upper
 75 100
 53 0.2 83.2 124.8#
 89 0.1 36.6 54.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 9.635 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VW005508.D
 Acq: 19 Sep 2018 05:47

Tgt Ion: 105 Resp: 77927
 Ion Ratio Lower Upper
 105 100
 120 43.1 21.8 65.3





#90

Hexachloroethane

Concen: 1.452 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW005508.D

Acq: 19 Sep 2018 05:47

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:117 Resp: 2127

Ion Ratio Lower Upper

117 100

201 0.0 42.5 127.5#

